

# I/O Cards

## PISO-P8R8U

Universal PCI, 8-ch Isolated D/I and  
8-ch Relay Output Board



Available soon



### Features ▶▶▶

- Universal PCI (3.3 V/5 V) interface
- 8 optically isolated D/I channels
- 8 relay output channels
- Drop-in replacement for the PISO-P8R8
- Card ID function
- Selectable DC signal input filter
- AC Signal input with filter
- Onboard relay output status LED indicators
- Supports Plug & Play to obtain I/O resources
- No more manually settings of I/O address and IRQ

### Introduction

The PISO-P8R8U universal PCI card supports 3.3 V/5 V PCI bus. These cards provide 8-channel optically isolated DI and an 8-channel electromechanical relay output board. These DI channels provide 3750 Vrms isolation protection that allows the input signals to be completely floated so as to prevent ground loops and isolate the host computer from damaging voltages. Relays are used where necessary to control a circuit using a low-power signal (with complete electrical isolation between the control and controlled circuits), or where several circuits must be controlled using one signal. The PISO-P8R8U can be used in various applications, such as controlling the ON/OFF state of external devices, driving external relays or small power switches, activating alarms, contact closure, sensing external voltages or switches, etc. The PISO-P8R8U is fully compatible with the PISO-P8R8, and users can replace the PISO-P8R8 by the PISO-P8R8U directly without software/driver modification.

The PISO-P8R8U also adds a Card ID switch on-board. Users can set Card ID and then recognize the board by the ID via software when using two or more PISO-P8R8U cards in one computer.

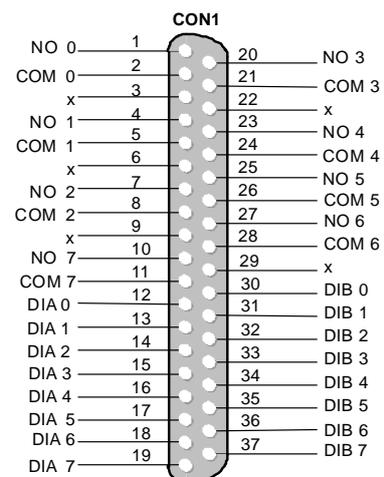
### Software

- DOS Lib and TC/BC/MSC sample program (with source codes)
- VB/VC/Delphi/BCB/VB.NET/C#.NET sample programs with source codes
- DLL and OCX SDK for 32-bit and 64-bit Windows XP/2003/Vista/2008/7
- Supports LabVIEW and Linux

### Hardware Specifications

Digital Input	
Isolation Voltage	5000 Vrms
Channels	8-ch
Input Voltage	Logic 1: AC/DC 5~24 V (AC 50~1 kHz), Logic0: AC/Dc 0~1 V
Response Speed	Without Filter: 50 kHz (Typical) With Filter: 0.455 kHz (Typical)
Relay Output	
Channels	8-ch
Relay Type	SPST N.O. (Form A)
Contact Rating	AC: 250 V @ 1.6 A DC: 30 V @ 5 A
Operate Time	6 ms (Typical)
Release Time	3 ms (Typical)
Insulation Resistance	1000 MΩ
Life	Mechanical: 2,000,000 ops. Electrical: 100,000 ops.
General	
Bus Type	Universal PCI, 3.3 V and 5 V, 33 MHz, 32-bit, Plug and Play
Connectors	Female DB-37 x1
Power Consumption	300 mA @ +5 V
Operating Temperature	0 °C ~ +60 °C
Storage Temperature	-20 °C ~ +70 °C
Humidity	5 ~ 85% RH, non-condensing

### Pin Assignments



### Ordering Information

PISO-P8R8U CR

Universal PCI, 8-ch relay output with  
isolated D/I board. (RoHS)  
Includes one CA-4002 D-Sub connector.